

Form PTO-1449

**INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION**  
*(Use several sheets if necessary)*

Docket Number (Optional)  
 FPY- 083.02 (22823-8302)

Application Number  
 To be Assigned

12/677380

Applicants  
 Quigley, et al.

Filing Date  
 October 2, 2003

Group Art Unit  
 3617

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>Q</i>	A1 646,887	04/1900	Stowe et al.			
<i>Q</i>	A2 1,930,285	10/1933	Robinson	113	116	
<i>Q</i>	A3 2,648,720	08/1953	Alexander	174	34	
<i>Q</i>	A4 2,690,769	10/1954	Brown	138	55	
<i>Q</i>	A5 2,725,713	12/1955	Blanchard	57	149	
<i>Q</i>	A6 2,810,424	10/1957	Swartswelter et al.	154	1.8	
<i>Q</i>	A7 3,086,369	04/1963	Brown	61	72.3	
<i>Q</i>	A8 3,116,760	01/1964	Matthews	138	125	
<i>Q</i>	A9 3,277,231	10/1966	Downey et al.	174	47	
<i>Q</i>	A10 3,334,663	08/1967	Peterson	138	132	
<i>Q</i>	A11 3,379,220	04/1968	Kiuchi et al.	138	125	
<i>Q</i>	A12 3,477,474	11/1969	Mesler	138	133	
<i>Q</i>	A13 3,507,412	04/1970	Carter	214	338	
<i>Q</i>	A14 3,522,413	08/1970	Chrow	219	301	
<i>Q</i>	A15 3,554,284	01/1971	Nystrom	166	250	
<i>Q</i>	A16 3,579,402	05/1971	Goldsworthy et al.	156	392	
<i>Q</i>	A17 3,604,461	09/1971	Matthews	138	137	
<i>Q</i>	A18 3,606,402	09/1971	Medney	285	305	
<i>Q</i>	A19 3,692,601	09/1972	Goldsworthy et al.	156	74	
<i>Q</i>	A20 3,700,519	10/1972	Carter	156	156	
<i>Q</i>	A21 3,701,489	10/1972	Goldsworthy et al.	242	7.21	
<i>Q</i>	A22 3,734,421	05/1973	Karlson et al.	242	7.21	
<i>Q</i>	A23 3,738,637	06/1973	Goldsworthy et al.	269	61	
<i>Q</i>	A24 3,740,285	06/1973	Goldsworthy et al.	159	173	
<i>Q</i>	A25 3,769,127	10/1973	Goldsworthy et al.	156	172	
<i>Q</i>	A26 3,773,090	11/1973	Chersa et al.	138	141	

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				Filing Date October 2, 2003		Group Art Unit 3617	
A27	3,783,060	01/1974	Goldsworthy et al.	156	69		
A28	3,860,742	01/1975	Medney	174	84S		
A29	3,828,112	08/1974	Johansen et al.	174	47		
A30	3,856,052	12/1974	Feucht	138	119		
A31	3,933,180	01/1976	Carter	138	89		
A32	3,956,051	05/1976	Carter	156	429		
A33	3,957,410	05/1976	Goldsworthy et al.	425	183		
A34	3,960,629	06/1976	Goldsworthy	156	180		
A35	Re 29,112	01/1977	Carter	156	156		
A36	4,053,343	10/1977	Carter	156	172		
A37	4,057,610	11/1977	Goettler et al.	264	108		
A38	4,095,865	06/1978	Denison et al.	339	16R		
A39	4,108,701	08/1978	Stanley	156	160		
A40	4,125,423	11/1978	Goldsworthy	156	428		
A41	4,133,972	01/1979	Andersson et al.	174	47		
A42	4,137,949	02/1979	Linko, III et al.	138	125		
A43	4,139,025	02/1979	Carlstrom	138	153		
A44	4,190,088	02/1980	Lalikos et al.	138	126		
A45	4,200,126	04/1980	Fish	138	143		
A46	4,220,381	09/1980	van der Graaf	339	16C		
A47	4,241,763	12/1980	Antal et al.	138	127		
A48	4,248,062	02/1981	McLain et al.	64	1		
A49	4,261,390	04/1981	Belofsky	138	125		
A50	4,303,457	12/1981	Johansen et al.	156	149		
A51	4,308,999	01/1982	Carter	242	7.02		
A52	4,336,415	06/1982	Walling	174	47		
A53	4,446,892	05/1984	Maxwell	138	104		
A54	4,463,779	08/1984	Wing et al.	138	125		

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Docket Number (Optional)  
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To be Assigned 10/077560

Applicants  
Quigley, et al.

Filing Date  
October 2, 2003

Group Art Unit  
3617

✓	A55	4,515,737	05/1985	Karino et al.	264	22	
✓	A56	4,522,235	06/1985	Kluss et al.	138	130	
✓	A57	4,530,379	07/1985	Policelli	138	109	
✓	A58	4,556,340	12/1985	Morton	405	195	
✓	A59	4,578,675	05/1986	MacLeod	340	855	
✓	A60	4,606,378	08/1986	Meyer	138	103	
✓	A61	4,627,472	12/1986	Goettler et al.	138	174	
✓	A62	4,657,795	04/1987	Foret	428	36	
✓	A63	4,681,169	07/1987	Brookbank, III	166	385	
✓	A64	4,728,224	03/1988	Salama et al.	405	195	
✓	A65	4,789,007	12/1988	Cretel	138	174	
✓	A66	4,849,668	07/1989	Crawley et al.	310	328	
✓	A67	4,859,024	08/1989	Rahman	350	96.23	
✓	A68	4,992,787	02/1991	Helm	340	854	
✓	A69	5,097,870	03/1992	Williams	138	115	
✓	A70	5,170,011	12/1992	Martucci	174	47	
✓	A71	5,172,765	12/1992	Sas-Jaworsky et al.	166	384	
✓	A72	5,176,180	01/1993	Williams et al.	138	172	
✓	A73	5,182,779	01/1993	D'Agostino et al.	385	13	
✓	A74	5,184,682	02/1993	Delacour et al.	166	385	
✓	A75	5,188,872	02/1993	Quigley	428	36.2	
✓	A76	5,209,136	05/1993	Williams	74	502.5	
✓	A77	5,222,769	06/1993	Kaempfen	285	45	
✓	A78	5,285,008	02/1994	Sas-Jaworsky et al.	174	47	
✓	A79	5,285,204	02/1994	Sas-Jaworsky	340	854.9	
✓	A80	5,330,807	07/1994	Williams	428	34.5	
✓	A81	5,334,801	08/1994	Mohn	174	47	
✓	A82	5,348,096	09/1994	Williams	166	384	

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5	A83	5,351,752	10/1994	Wood et al.	166	68	
4	A84	5,348,096	09/1994	Williams	166	384	
3	A85	5,394,488	02/1995	Fernald et al.	385	13	
2	A86	5,426,297	06/1995	Dunphy et al.	250	227.23	
1	A87	5,428,706	06/1995	Lequeux	392	472	
9	A88	5,435,867	07/1995	Wolfe et al.	156	171	
8	A89	5,443,099	08/1995	Chaussepied et al.	138	109	
7	A90	5,469,916	11/1995	Sas-Jaworsky et al.	166	64	
6	A91	Re 35,081	11/1995	Quigley	428	36.2	
5	A92	5,499,661	03/1996	Odru et al.	138	124	
4	A93	5,551,484	09/1996	Charboneau	138	104	
3	A94	5,641,956	06/1997	Vengsarkar et al.	250	227.14	
2	A95	5,730,188	03/1998	Kalman et al.	138	135	
1	A96	5,755,266	05/1998	Aanonsen et al.	138	174	
3	A97	5,797,702	08/1998	Drost et al.	405	166	
1	A98	5,828,003	10/1998	Thomeer et al.	174	69	
0	A99	5,908,049	06/1999	Williams et al.	138	125	
5	A100	5,913,337	06/1999	Williams et al.	138	125	
1	A101	5,921,285	07/1999	Quigley et al.	138	125	
2	A102	5,933,945	08/1999	Thomeer et al.	29	825	
1	A103	5,951,812	09/1999	Gilchrist, Jr.	156	304.2	
2	A104	5,984,581	11/1999	McGill et al.	405	172	
3	A105	6,016,845	1/2000	Quigley et al.	138	125	
5	A106	6,148,866	11/2000	Quigley et al.	138	125	
2	A107	6,286,558 B1	09/2001	Quigley et al.	138	125	
2	A108	6,357,485 B2	03/2002	Quigley et al.	138	125	
5	A109	6,361,299 B1	03/2002	Quigley et al.	425	35.9	

Av. 4A

3/14/04

FOREIGN PATENT DOCUMENTS								
	DOCUMENT NUMBER		DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
1	B1	0024512 A1	03/1981	European				
2	B2	0352148 A1	01/1990	European				
3	B3	0505815 A2	09/1992	European				
4	B4	4214383 C1	09/1993	Germany				
5	B5	553110	08/1942	United Kingdom				
6	B6	2255994 A	11/1992	United Kingdom				
7	B7	2270099 A	03/1994	United Kingdom				
8	B8	87/04768	08/1987	WO				
OTHER DOCUMENTS <span style="float: right;">(Including Author, Title, Date, Pertinent Pages Etc.)</span>								
9	C1	International Search Report Completed on August 13, 2002.						
10	C2	Austigard E. and R. Toniter, "Composites Subsea: Cost Effective Products; an Industry Challenge," Subsea 94 International Conference, the 1994 Report on Subsea Engineering : The Continuing Challenges						
11	C3	Connell Mike et al., "Coiled Tubing: Application for Today's Challenges," Petroleum Engineer International, pp 18-21 (July 1999)						
12	C4	Feechan Mike et al., "Spoolable Composites Show Promise," The American Oil & Gas Reporter, pp. 44-50 ( September 1999)						
13	C5	Fowler Hampton, "Advanced Composite Tubing Usable," The American Oil & Gas Reporter, pp. 76-81 (September 1997)						
14	C6	Fowler Hampton et al., "Development Update and Applications of an Advanced Composite Spoolable Tubing," Offshore Technology Conference held in Houston Texas from 4 <sup>th</sup> to 7 <sup>th</sup> of May 1998, pp. 157-162						
15	C7	Hahn H. Thomas and Williams G. Jerry, "Compression Failure Mechanisms in Unidirectional Composites," NASA Technical Memorandum pp. 1-42 ( August 1984 )						
16	C8	Hansen et al., "Qualification and Verification of Spoolable High Pressure Composite Service Lines for the Asgard Field Development Project," paper presented at the 1997 Offshore Technology Conference held in Houston Texas from 5 <sup>th</sup> to 8 <sup>th</sup> of May 1997, pp. 45-54						
17	C9	Haug et al., "Dynamic Umbilical with Composite Tube (DUCT)," Paper presented at the 1998 Offshore Technology Conference held in Houston Texas from 4 <sup>th</sup> to 7 <sup>th</sup> , 1998, pp. 699-712						
18	C10	Lundberg et al., "Spin-off Technologies from Development of Continuous Composite Tubing Manufacturing Process," Paper presented at the 1998 Offshore Technology Conference held in Houston, Texas from 4 <sup>th</sup> to 7 <sup>th</sup> of May 1998, pp. 149-155						
19	C11	Marker et al., "Anaconda: Joint Development Project Leads to Digitally Controlled Composite Coiled Tubing Drilling System," Paper presented at the SPEU COTA, Coiled Tubing Roundtable held in Houston, Texas from 5 <sup>th</sup> to 6 <sup>th</sup> of April, 2000, pp. 1-9						
20	C12	Measures R. M., "Smart Structures with Nerves of Glass," Prog. Aerospace Sci. 26(4): 289-351 (1989)						

	C13	Measures et al., "Fiber Optic Sensors for Smart Structures," Optics and Lasers Engineering 16: 127-152 (1992)
	C14	Poper Peter, "Braiding," International Encyclopedia of Composites, Published by VGH, Publishers, Inc., New York, NY 10010
	C15	Quigley et al., "Development and Application of a Novel Coiled Tubing String for Concentric Workover Services," Paper presented at the 1997 Offshore Technology Conference held in Houston, Texas from 5 <sup>th</sup> to 8 <sup>th</sup> of May 1997, pp. 189-202
	C16	Sas-Jaworsky II and Bell Steve, "Innovative Applications Stimulate Coiled Tubing Development," World Oil, 217(6): 61 (June 1996)
	C17	Sas-Jaworsky II and Mark Elliot Teel, "Coiled Tubing 1995 Update: Production Applications," World Oil, 216 (6): 97 (June 1995)
	C18	Sas-Jaworsky, A. and J.G. Williams, "Advanced composites enhance coiled tubing capabilities," World Oil, pp. 57-69 (April 1994)
	C19	Sas-Jaworsky, A. and J.G. Williams, "Development of a composite coiled tubing for oilfield services," Society of Petroleum Engineers, SPE 26536, pp. 1-11 (1993)
	C20	Sas-Jaworsky, A. and J.G. Williams, "Enabling capabilities and potential applications of composite coiled tubing," Proceedings of World Oil's 2 <sup>nd</sup> International Conference on Coiled Tubing Technology, pp. 2-9 (1994)
	C21	Sas-Jaworsky II Alex, "Developments Position CT for Future Prominence," The American Oil & Gas Reporter, pp. 87-92 (March 1996)
	C22	Tore Wood Moe et al., "Spoolable, Composite Piping for Chemical and Water Injection and Hydraulic Valve Operation," Proceedings of the 11 <sup>th</sup> International Conference on Offshore Mechanics and Arctic Engineering-1992-, Volume III, Part A- Materials Engineering, pp. 199-207 (1992)
	C23	Shuart J. M. et al., "Compression Behavior of $\pm 45^\circ$ -Dominated Laminates with a Circular Hole or Impact Damage," AIAA Journal 24(1): 115- 122 (January 1986)
	C24	Silverman A. Seth, "Spoolable Composite Pipe for Offshore Applications," Materials Selection & Design, pp. 48-50 (January 1997)
	C25	Rispler K. et al., "Composite Coiled Tubing in Harsh Completion/Workover Environments," Paper presented at the SPE GAS Technology Symposium and Exhibition held in Calgary, Alberta, Canada, on March 15-18, 1998, pp. 405-410
	C26	Williams G. J. et al., "Composite Spoolable Pipe Development, Advancements, and Limitations," Paper presented at the 2000 Offshore Technology Conference held in Houston Texas from 1 <sup>st</sup> to 4 <sup>th</sup> of May 2000, pp. 1-16
EXAMINER	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%; text-align: center;"> </div> <div style="width: 45%; text-align: center;"> DATE CONSIDERED  </div> </div>	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.		